## **CLAIMS**

I claim:

- 1. A roller system having at least one operable roller unit, each roller unit comprising:
  - a. a roller, cylindrical in shape having a length and a diameter, the roller having a center aperture extending through the length of the roller being fabricated from a polymer;
  - b. a shaft in the form of an elongate cylinder having a diameter sized to rotatably fit within the central aperture of the roller, the shaft further having a means for retention located upon the shaft ends;
  - c. an elongate "U" shaped roller rack, the roller rack sized to extend the length of the roller and having a pair of upwardly extending ends located adjacent the ends of the roller, each end having an aperture sized to receive the respective shaft end and locate the shaft in a fixed location.
- 2. The roller system as described in claim 1 wherein the polymer forming the roller is a polymer select from the group consisting of polysulfone, polyetherimide, polyetherketone, polyphenylene sulfide and polyvynilidene fluoride.
- 3. The roller system as described in claim 1 wherein the polymer forming the roller is an acetyl copolymer.
- 4. The roller system as described in claim 1 further comprising a pair of bushings having central openings fitted within the central aperture of the roller and attached to the roller sized to rotatably accept the shaft within their respective central openings.

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- 5. The roller system as described in claim 1 further comprising a pair of bearings having central openings fitted within the central aperture of the roller and attached to the roller sized to rotatably accept the shaft within their respective central openings
- 6. A rollet comprising:
  - a. an outer housing constructed from a polymer selected from the group consisting of polysulfone, polyetherimide, polyetherketone, polyphenylene sulfide and polyvynilidene fluoride;
  - b. the outer housing further having a central aperture disposed longitudinally therethrough; and
  - c. a bearing located surrounding the central aperture and attached to the outer housing.
- 7. A monolithic roller comprising a cylindric roller body, the roller body having a length and a diameter, the roller also having an aperture extending along and through the center of the roller, the roller fabricated from a polymeric material.
- 8. The monolithic roller of claim 7 further comprising a pair of bushings fitted within aperture of the roller extending inwardly into the aperture of the roller.
- 9. The monolithic roller of claim 8 wherein the pair of bushing is merged into a single bushing extending through the roller.
- 10. The monolithic roller of claim \( \frac{1}{3} \) further comprising a pair of bearings fitted within aperture of the roller extending inwardly into the aperture of the roller.

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- 11. The monolithic roller of claim 7 wherein the polymeric material of the roller is selected from the group consisting of polysulfone, polyetherimide, polyetherketone, polyphenylene sulfide and polyvynilidene fluoride.
- 12. The monolithic roller of claim 7 wherein the polymeric material of the roller is an acetyl copolymer.
- The monolithic roller of claim 7 wherein the polymer has a compressibility strength of at least 20 psi, impact strength of at least 0.5 ft. Lbs. /in. and flexural strength of at least 20 psi.